

Fig. 1

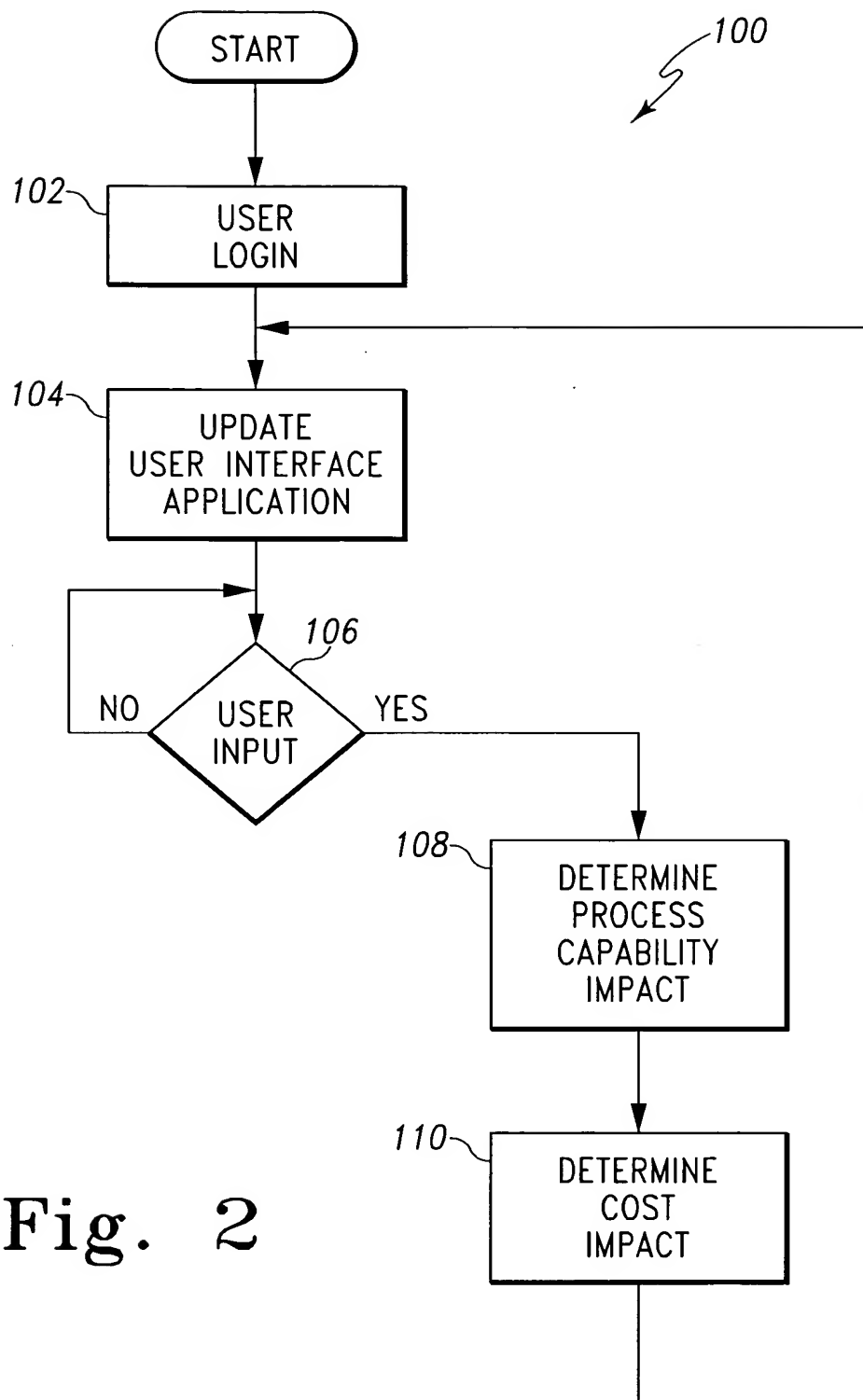


Fig. 2

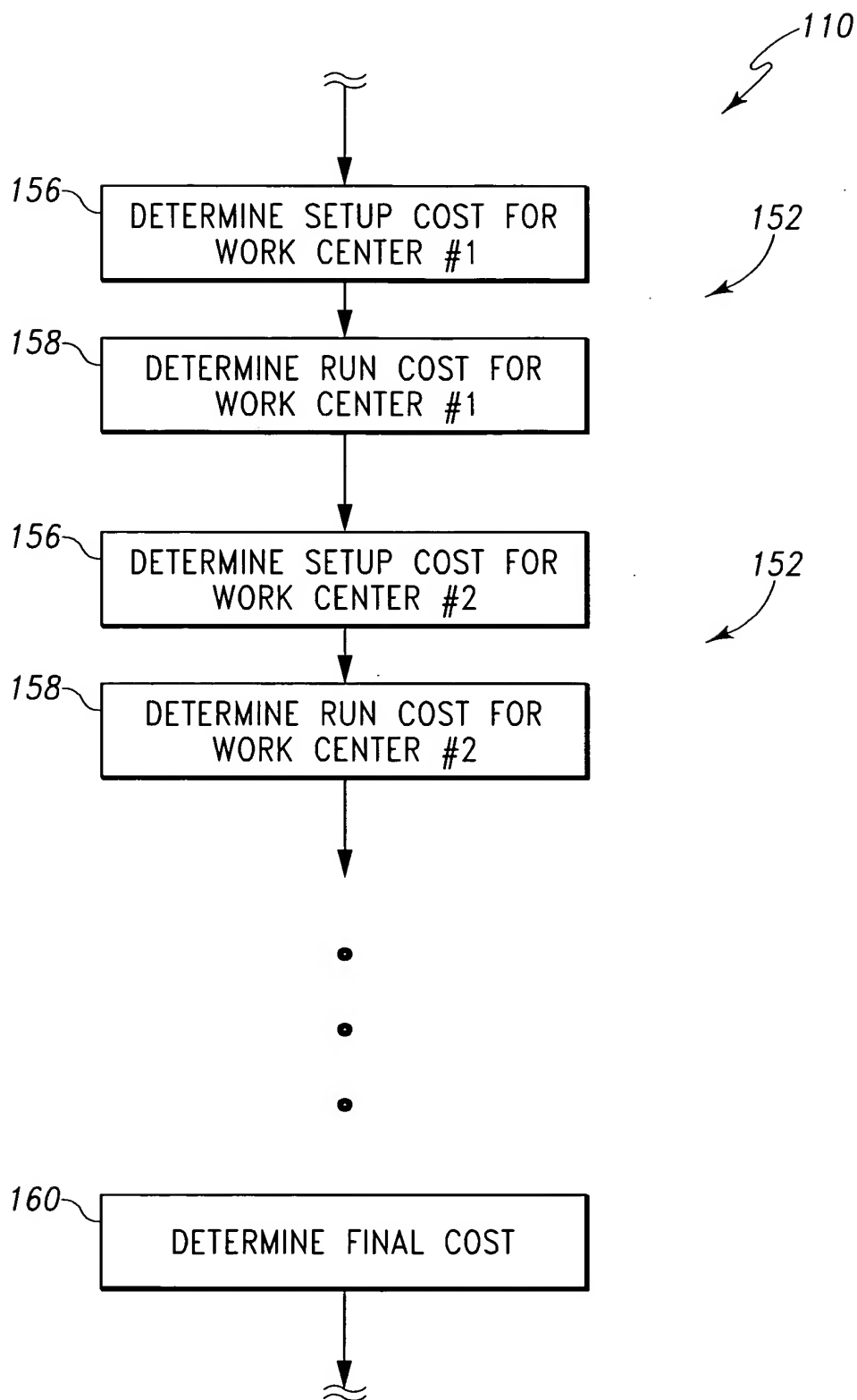


Fig. 3

213

Fig. 4

# Fi. 5

# Fi. 5

200

Assembly Design Assistant - Microsoft Internet Explorer

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# Design Assistant Tools

## Assembly

D12

Assembly Design Assistant  
Set Monitor to 1024 x 768 Pixels  
Monitor 90 ZOOM

Hold Cursor over a question for description

Single Board or Multi-Board Array?

Enter Outside Board Dimensions (Inches)  
Build to IPC Class (I/II/III)?  
Enter Quantity  
Turnaround Required?  
Is this a Mixed Technology Assembly?  
Are any SMT Components being placed?

Single Board Width Length

Fixtures/Programming Cost/Board \$0.00 \$0.00

SAVE/COMPARE  
1 Option  
2 Option  
3 Option

GO TO SAVED  
CLEAR ALL  
PRINT

Recommend 1/4 Inch (Minimum) Assembly Processing

IPC-A-610:  
Each Class requires specific criteria be met in regards to Solder Connections, the higher the Class the Higher the Manufacturing Difficulty.

Class 1: General Electronic Products (i.e.: Calculators, Toys, VCR, etc.)  
Class 2: Dedicated Service Electronic Products (i.e.: Cell Phone, Controllers, etc.)  
Class 3: High Performance Electronic Products (i.e.: Flight Control, Life Support, etc.)

Are any Through Hole Components being placed?

start Assembly Design Ass...

Internet 5:20PM

Fig. 6

200

Assembly Design Assistant - Microsoft Internet Explorer

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# Design Assistant Tools

## Assembly

F16

**Assembly Design Assistant**  
Set Monitor to 1024 x 768 Pixels

Monitor

Hold Cursor over a question for description

**Single Board or Multi-Board Array?**

Enter Outside Board Dimensions (Inches)

Build to IPC Class (I/II/III)

Enter Quantity

Turnaround Required?

Is this a Mixed Technology Assembly?

**Fixtures/Programming Cost/Board**

\$656.30

\$0.00

**SAVE/COMPARE**

☐ Option 1

☐ Option 2

☐ Option 3

GO TO SAVED

CLEAR ALL

PRINT

Recommends 1/4 inch (Minimum) rails be provided on the PCB for Assembly Processing

Turntime is contingent on obtaining all Components required for Build

Single Board		Yes - Both Sides	
Width	Length	Component Side	Solder Side
4.50	7.90	48	12
		1	0
		145	85

4 Weeks

Go to Solder Side SMT Assistance

Go to Solder Side SMT Assistance

Reflow Component Side Components, Glue Dot Solder Side Components

Expected SMT Process

Are any Through Hole Components being placed?

Are any SMT Components being placed?

Total # of Unique SMT Components

Of these, Enter the # of Unique BGA's

Total # of SMT Components being placed

Of these, are any of these smaller than 0603?

Of these, Enter the # that contain 3 leads or more

Of these, Enter the # that are BGA's

Of these, Enter the # that are Hand Placed

Surface Mount

Done

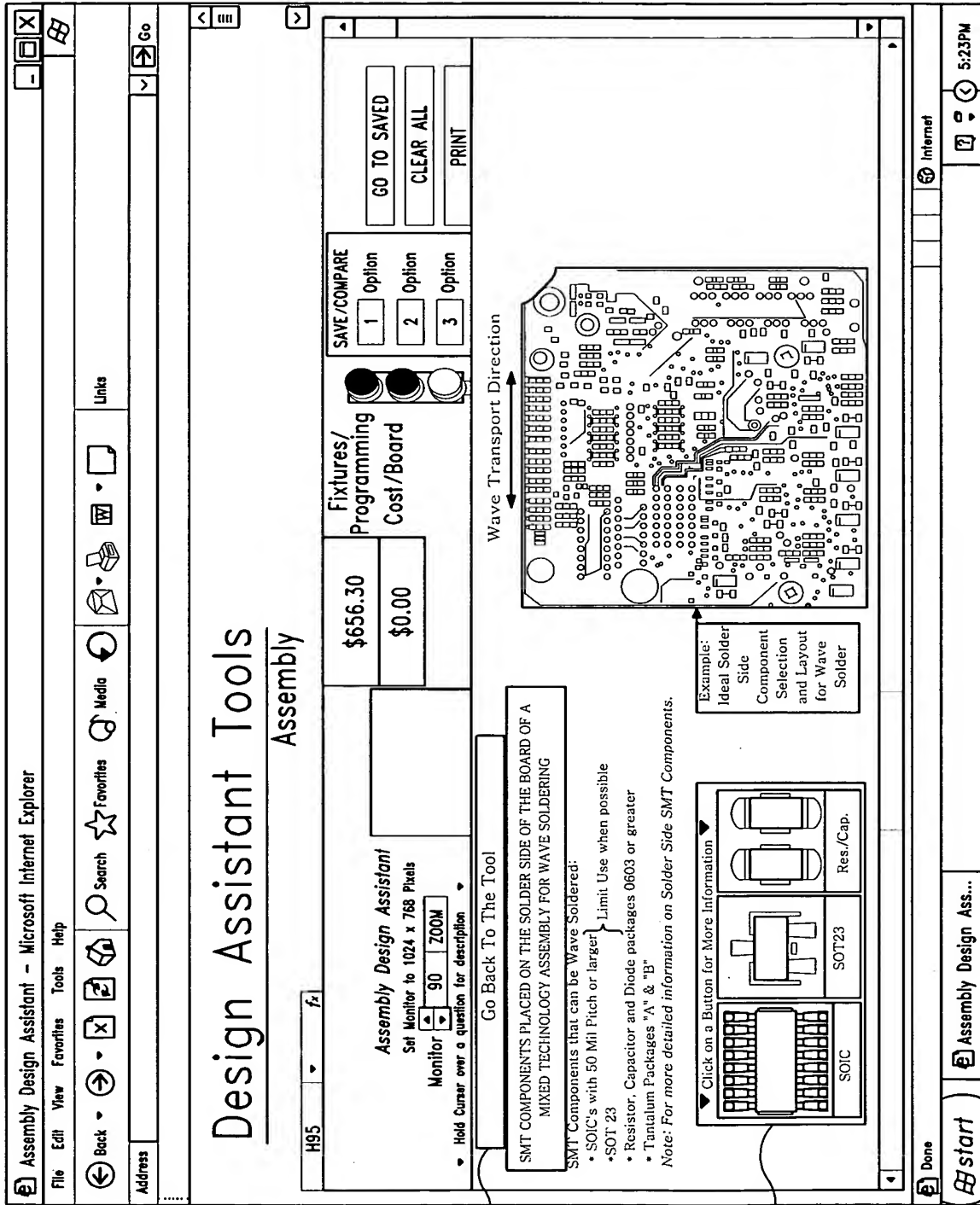
start Assembly Design Ass...

Internet 5:22PM

213

Fig. 7

200



216

266

Fig. 8

200

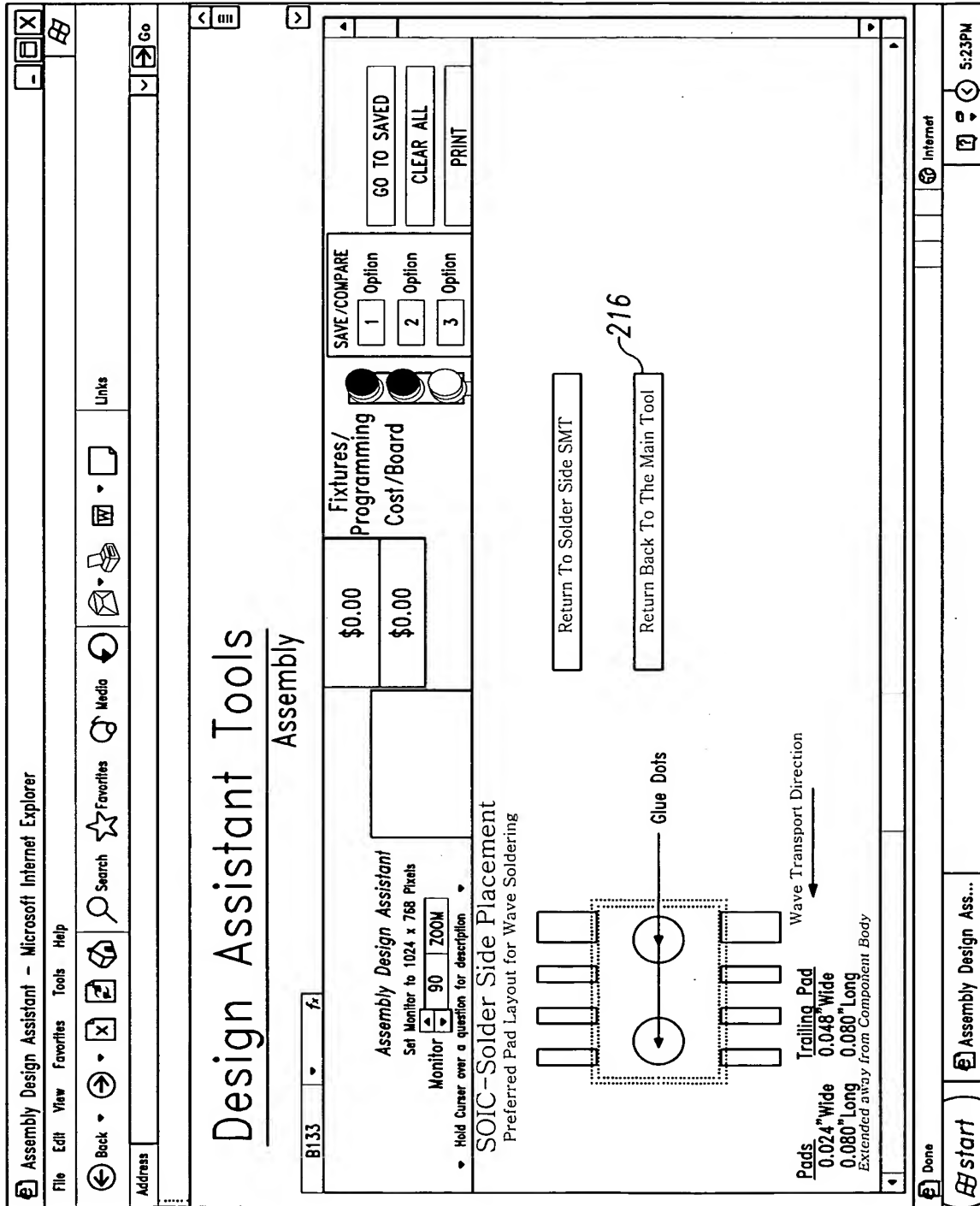


Fig. 9

Fig. 10

Fig. 10